

164(60)

PHYSICAL CONSTANTS DATA

Substance	Structural Formula		
	Meta	Para	
XYLENE			
Compiled by S. McWilliams	Date 4/71		
Name	Meta	Para	Reference
Appearance	Colorless Liquid		1
Molecular Weight	106.16		1
Formula	C ₈ H ₁₀		1
Boiling Point at 760 mm Hg	139.1 °C	138.4 °C	1
Melting Point	-47.4 °C	13.2 °C	1
Flash Point	25 °C		18
Ignition Temperature	--	--	
Critical Temperature	345.2 °C	344.7 °C	4
Critical Pressure	510 psig	500 psig	4
Critical Volume	5.95 cu. ft./lb. mole		3
Index of Refraction at 20 °C	1.49722	1.49582	1
Heat of Vaporization at 25 °C	96.03 Cal/gm	95.4 Cal/gm	2
Heat of Fusion at 16 °C	39.3 Cal/gm		1
Heat of Combustion at 25 °C	17,543 BTU/	17,547 BTU/	2
Heat of Formation at 25 °C	-6.075 Kcal/	-5.838 Kcal/	2
Solubility in Water	mole Insoluble	mole	1
Solubility in Alcohol	Very Soluble		1
Solubility in Ether	Very Soluble		1
Specific Gravity at 20 °C	0.88		19
Density at 20 °C - lbs./gal. (See Figure 1)	7.3		
Specific Heat at 20 °C (See Figure 2)	0.40	0.39	2
Surface Tension at 20 °C	28.9 dynes/ cm	28.4 dynes/ cm	1
Thermal Conductivity at 68 °F	0.9 BTU/hr.-ft-°F		2
Vapor Pressure at 20 °C (See Figure 3)	6 mm Hg		2
Viscosity at 20 °C (See Figure 4)	0.62 cp	0.67 cp	2

TRADE SECRETS